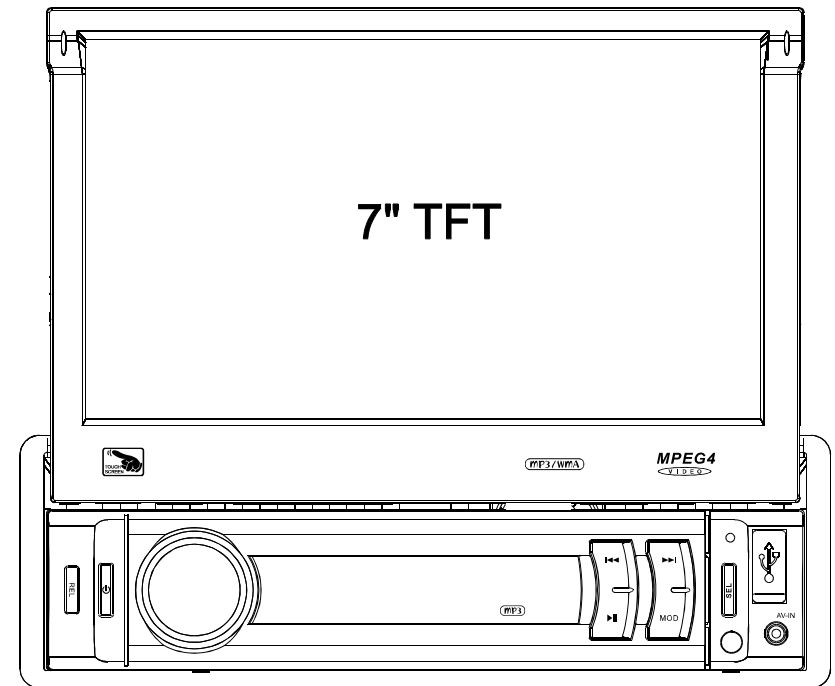


Instruction Manual



**7" Single-Din In-Dash Motorized
Touch Screen LCD Monitor
w/ DVD/CD/MP3/MP4/USB/SD/
AM-FM Radio**

Remark: Any information subject to change without further notice

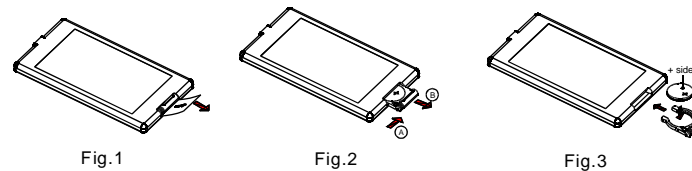
1. Before Operation

1.1 Precautions

1. Read through this instruction manual before installation and use.
2. Clear the panel and case with soft dry cloth only, do not apply any kind of thinner, alcohol or sprays.
3. The apparatus shall not be exposed to dripping or splashing .

1.2 Battery Information of the Remote Control

Replace Battery in the Remote Control:

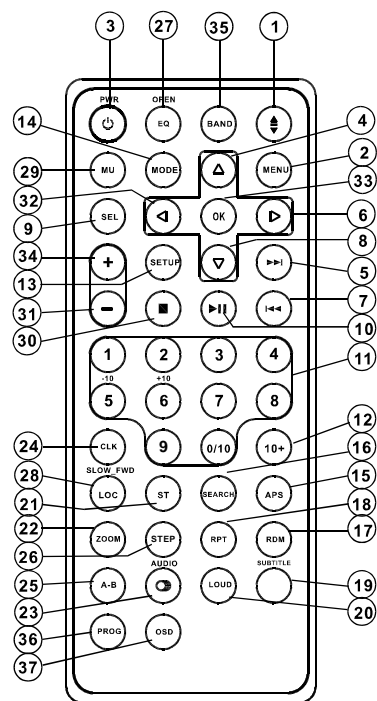


1. Before using the remote control for the first time, pull the insulating sheet out of the remote control as the direction indicated by the arrow.(see fig.1)
2. Press the movable block hold as the direction indicated by the A arrow (See fig.2), then pull the battery holder out of the remote control as the direction indicated by the B arrow(see fig.2).
3. Replace the old battery by a new battery with (+) polarity side upward. (See fig.3).
4. Insert the battery holder to the original position in remote control. (See fig.3).

Note about the Battery of the Remote Control:

1. Improper use of battery may cause overheating or explosion. so that Result in injury or fire .
2. Battery leakage may cause damage to the remote control(Battery Life: 6 months with normal use in normal room temperature).
3. Do not short the battery.
4. Do not throw the battery into the fire.
5. To avoid the risk of accident, keep the battery out of reach of children.

1.3 The Remote Control Description



16. SEARCH BUTTON

17. RDM BUTTON

18. RPT BUTTON

19. SUBTITLE BUTTON

20. LOUD BUTTON

21. ST BUTTON

22. ZOOM BUTTON

23. AUDIO BUTTON

24. CLK BUTTON

25. A-B BUTTON

26. STEP BUTTON

1. TILT BUTTON

2. MENU BUTTON

3. POWER BUTTON

4. ^ BUTTON

5. >>| BUTTON

6. > BUTTON

7. |<< BUTTON

8. v BUTTON

9. SEL BUTTON

10. PLAY/PAUSE BUTTON

11. NUMBER(0~10,+10
-10) BUTTONS

12. 10+ BUTTON

13. SETUP BUTTON

14. MODE BUTTON

15. APS BUTTON

27. EQ/OPEN BUTTON

28. LOC/SLOW-FWD BUTTON

29. MUTE BUTTON

30. STOP BUTTON

31. VOLUME- BUTTON

32. < BUTTON

33. OK BUTTON

34. VOLUME+ BUTTON

35. BAND BUTTON

36. PROG BUTTON

37. OSD BUTTON

7. Specification

General Specification

Power Supply Requirement.....DC 12V

Maximum Power Output.....4 x 80(320W)

Dimensions(w x h x d).....178 x 58 x 176mm

USB/CARD Specification

Format.....MP4/JPEG/MP3/WMA

Output Video System.....NTSC

Audio System.....24 bit/96KHz

Video Specification

Video Type.....16:9 and 4:3

Video Output level.....Composite:1.0± 0.2Vp-p

Load impedance: 75 ohms

Audio Specification

Audio Output(Analog audio).....1200mV +/-300

Frequency Response.....20Hz ~ 20KHz(at 1KHz 0 dB)

S/N Ratio(Audio).....≥90dB(at 1KHz 0 dB)

Separation.....50dB

Radio Specification

FM Section

Frequency range.....87.5MHz - 107.9MHz

Usable sensitivity.....3uV

I.F Frequency.....10.7MHz

AM Section

Frequency.....530KHz - 1710KHz

6. Trouble Shooting

Please read the user manual carefully before using the this player. If you have any troubles in using this player, try to solve the problems by the suggestions mentioned below. If you can not remove the trouble after using all the suggestions, please contact the company or the technical service centre authorized by us. For the sake of your safety, please do not open the cover and repair the player by yourself, if that, it may cause electric shock.

NO PICTURE, SOUND AND INDICATION

- * Ensure that the power cord is not damaged or the fuse is not blown.

NO SOUND BUT HAVE PICTURE

- * Ensure that the player's audio output has a good connection .
- * Check whether you have turned down the volume.
- * Ensure that you have set the right AUDIO setup of the player.
- * Ensure that the audio is not under mute.

NO PICTURE BUT HAVE SOUND

- * Ensure that the player's video output has a good connection with monitor's video input.
- * Check whether the video connector is damaged.
- * Ensure that you have set the right VIDEO settings of the player.

FLAWS OF PICTURE OR SOUND

- * Check whether the setting of AUDIO is right.

REMOTE CONTROL IS INSENSITIVE OR DOES NOT WORK

- * Check the batteries of remote control and make sure that they are to be powerful and good conductivity.
- * Direct the remote control to the IR sensor of the player.
- * Check whether there are some obstacles between the remote control and IR sensor.

SOME FUNCTION BUTTONS DO NOT WORK

- * Turn off the power, then turn on again.
- * Reset the unit to zero, then turn on again.
- * Remove the front panel from the unit, then install it again and then turn on again.

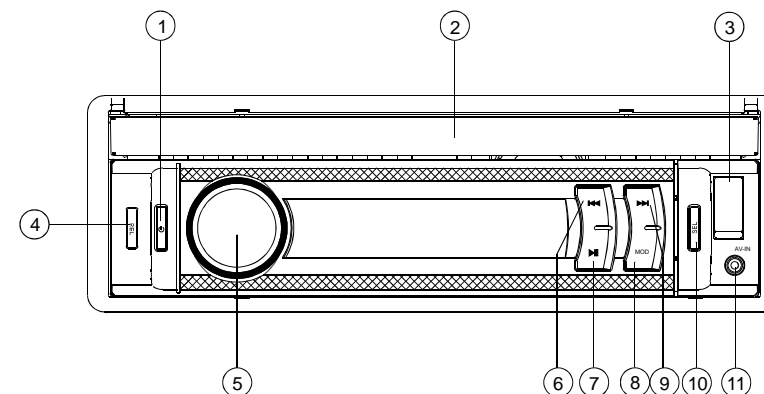
THE RADIO DOES NOT WORK

- * Check whether the antenna cable is connected firmly. Or manually tune for a station.

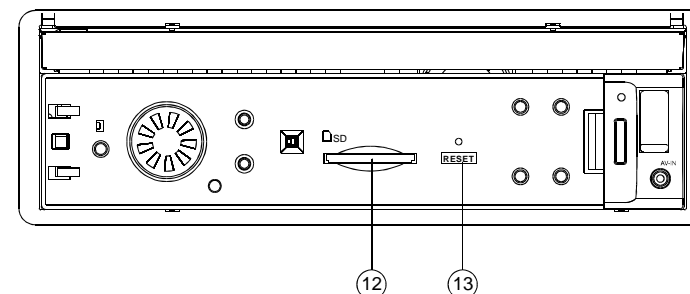
THE TFT DISPLAY LOST TOUCH EFFECT

- * In any mode, press the MENU on the remote to turn to the main interface, then press SET on the remote to turn to setting mode then press right arrow to select calibrate mode and then tap the cross cursor as it show.

1.4 Locations and Names of the Controls



The figure of the front panel

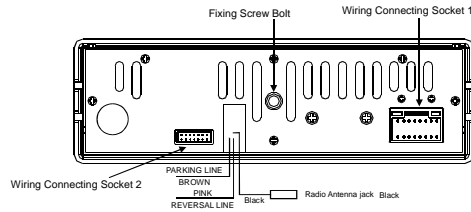


The figure of the Unit Chassis Facet After removing the Front Panel

- | | |
|----------------------|------------------|
| 1. POWER/MUTE BUTTON | 8. MODE BUTTON |
| 2. MONITOR | 9. I<< BUTTON |
| 3. USB JACK | 10. SEL BUTTON |
| 4. REL BUTTON | 11. AV IN JACK |
| 5. VOL KNOB | 12. CARD SLOT |
| 6. >>I BUTTON | 13. RESET BUTTON |
| 7. PLAY/PAUSE BUTTON | |

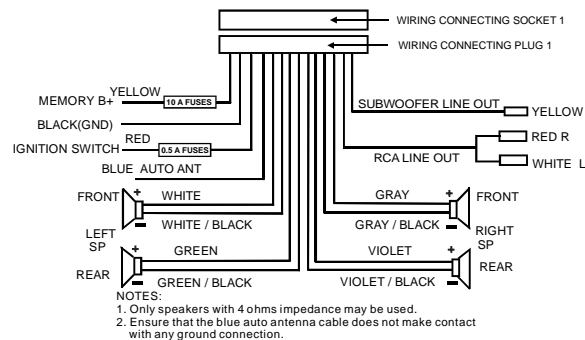
1.5 Wires Connection Description

The Description of the Wires Connection

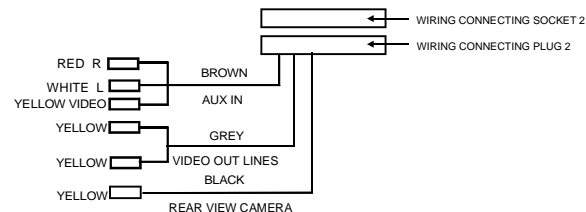


Note: 1. Use the clip end of a Ground Line provided by manufacturer to connect the Fixing Screw Bolt, use another end of the Ground Line to connect the negative pole of the power source. Otherwise, the video on screen maybe flashes.
2. When turning on rear view camera, sound of the current function mode will be muted.

The Description of the Wires Connection of the Wiring Connecting Socket 1

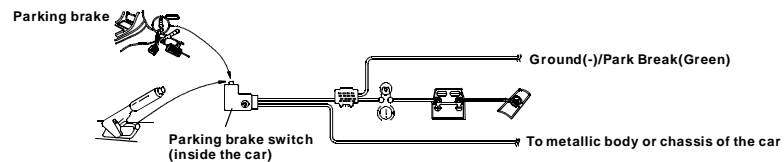


The Description of the Wires Connection of the Wiring Connecting Socket 2



NOTES: The rear AUX IN and the front AUX IN can not be used at the same time.

Description of Connecting the Parking Brake Line to the Parking Brake System Built in the Car



NOTE: after connecting the Parking Line, the video on the small monitor of the front panel will be display only after braking the car.

4.16.5 SPEAKER SETUP



DOWNMIX

It is for selecting your desired sound effect when there is no center speaker and subwoofer. There are 3 modes: LT/RT, STEREO, VSS.

LT/RT: When playing a media with PRO LOGIC Dolby stereo effect, choose the item, so it will output audio signal with vivid theatre effect.

STEREO: If you choose the item, when outputting audio signal with 5.1 channels, it will output the left and right channels of signal ; when outputting audio signal with 2 channels, it will output the common 2 channels of stereo signal.

VSS: If you choose the item, when playing a media recorded with 5.1 channels, the main channel speakers can output audio signal with VSS effect.

4.16.6 DIGITAL SETUP



OP MODE

It is for selecting audio output mode

DYNAMIC RANGE

After selecting the compression mode of LINE OUT, set the item, so you can adjust the linear compression ratio. If you set it to be FULL, the Peak-to-Peak value of the audio signal is the minimum; if you set it to be OFF, the Peak-to-Peak value is the maximum.

DUAL MONO

It is for selecting a desired audio output mode for the left and right ways of signal. It is mainly for Karaoke of Ac3. There are 4 modes in all as follows:
STEREO, MONO L, MONO R, MIX MONO.

MENU LANG

This item is for selecting a menu language.

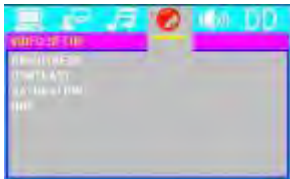
4.16.3 AUDIO SETUP



KEY

It is for selecting your desired basic music tone(from low to high).

4.16.4 VIDEO SETUP



BRIGHTNESS

It is for adjusting the brightness of the video output.

CONTRAST

It is for adjusting the contrast of the video output.

SATURATION

It is for adjusting the saturation of the video output.

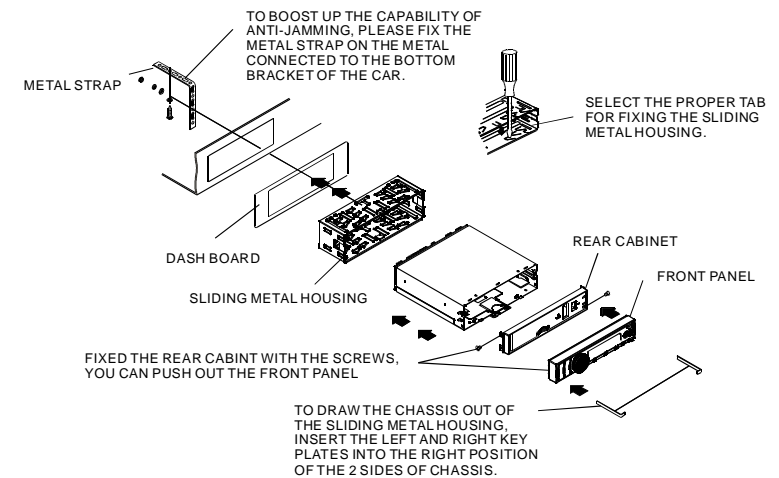
HUE

It is for adjusting the hue of the video output.

1.6 UNIT INSTALLATION

INSTALLATION INSTRUCTIONS

THE UNIT IS INSTALLED TO BE AN ANTI-THEFT ONE. THE CHASSIS OF THE UNIT WEARS A SLIDING METAL HOUSING. PLEASE DO THE CONNECTION OF THE POWER, SPEAKERS AND ANTENNA ACCORDING TO THE REQUIREMENT OF THE INSTRUCTION BOOK, THEN INSTALL THE SLIDING METAL HOUSING IN THE CAR AS FOLLOWS.




2. Common Operation

1. To turn on/off the unit
Under power off mode, press the POWER button to turn on the unit.
Under power on mode, press and hold the POWER button on the front panel or briefly press the POWER button on the remote control to turn off the unit.

2. To push in or push out the display
Before using, push out the display please, when there is power off ,please push in the display.

3. To select function mode
Press the MODE button to select TUNER, USB (After inserting a USB storage), Card(After inserting a MMC or SD card) AUX mode.

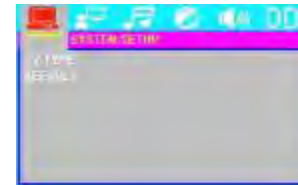
During playing , select the  to up to the main Menu.
Press and hold the MODE button the display can be turned off but the unit keeps working, when we press whatever button it returns on.



Mode Menu

4. To adjust sound level
Rotate the VOL knob or press or hold the + or - button to directly adjust the volume level.
5. To mute sound
Press the MUTE button on remote control to turn on/off MUTE mode.
Briefly pressing the POWER button on the front panel also can turn on/off MUTE mode.
In MUTE mode, the MUTE mode can be released by pressing the following knob/buttons: VOL, +, -, and SEL.
6. To display and adjust the time
Press the CLK button to display time on the small monitor of the front panel.
Press and hold the CLK button and then rotate the VOL knob or press the + or - button to adjust the time.
You can also adjust time in SETUP mode.
7. To select a preset EQ mode
Press the EQ button to select the preset music equalizer curves: FLAT, CLASSIC, ROCK, POP, EQ OFF . The sound effect will be changed.
8. To remove the front panel
Press the REL button on the front panel to detach the front panel from the unit, then you can remove the front panel.
9. To turn on/off LOUDNESS mode
Press the LOUD button to turn on/off LOUDNESS mode.
When turning on LOUDNESS mode, it will enhance bass level immediately when the bass is not enough.

4.16.1 SYSTEM SETUP



TV TYPE

The setup item is for matching TV screen size.

- 4:3 PS: Choose the item when connecting a TV set with 4:3 screen. When playing the pictures with 16:9 size, the left and right parts of the video will be cut out, and display in full screen.
- 4:3 LB: Choose the item when connecting a TV set with 4:3 screen. When playing the pictures with 16:9 size, the top and bottom parts of the TV screen will be turned into a black square respectively.

16:9: Choose the item when connecting a TV set with 16:9 wide screen.

DEFAULT

This item is for making all setup items change back to original status.

4.16.2 LANGUAGE SETUP



OSD LANGUAGE




This item is for selecting the language of the SYSTEM MENU and all operating prompt interface displayed during playback.

AUDIO LANG

This item is for selecting a audio language.

SUBTITLE LANG

This item is for selecting a subtitle language.

- 3 Use the number button to input desired sequence number of title/chapter/track with desired sequence.
 - 4 Use the direction button to move cursor onto Play item, then press the PLAY button on remote or tap the  to play the programmed in programmed order. After input a track number, tap the  to turn to next sequence number, tap  to cancel inputting.
- * To exit program playback, press the PROG button or tap the ESC to exit.
 - * To change the programmed sequence, move the cursor onto the item you want to change, input the desired sequence number.
 - * During JPEG playback, press the PROG button to change the mode of refresh picture.

4.15 ID3 Function

In MP3/WMA mode, during playback, the information of the file name, folder name, song s title, artist and album will be scrolling on the LCD display. As long as the current playing MP3 music contains relevant ID3 tag information in version 1.0/2.0 format, the 3 items underlined above will be scrolling on the LCD display; otherwise, they will not.

4.16 System Menu Setup Operation

1. Press the SETUP button on the remote controller to access the System Menu on the monitor.
 2. There are 6 setup pages in all for the System Menu. Press the > or < button to select an desired setup page.
 3. Press the ^ or v button to select an setup item in the selected setup page.
 4. Press the > button to enter the setup item. Then press the v or ^ button to select a desired mode of the setup item, finally press the OK button to confirm it.
- * Press the < button to return to the upper level.
 - * Press the SETUP button again to exit the System Menu.

For the System Menu, there are 6 setup pages in all. They display as follows:

10. To reset the unit
when the display is incorrect, or the function buttons are not effective or sound is distorted, press the REL button to detach the front panel from the unit and remove it, then use the sharp end of a thing to press the RESET button, which will reset to factory default, and re-instate the correct functions.

11. To adjust sound modes
To adjust the sound modes, briefly and repeatedly press the SEL button on the front panel to select one of the sound modes such as : VOL, BAS(without preset EQ), TRE (without preset EQ), BAL, FAD .

12. To do setup
In setup mode, select the GENERAL, TIME, AUDIO, VIDEO, RADIO, CALIBRATE as follow:

GENERAL SETUP

Wallpaper: this function allows to choose the display background.

Logo: this function allows to choose the starting screen.

Beep: choose the buttons' sound on/off



GENERAL SETUP

CLOCK SETUP

Clock time: adjust the clock.

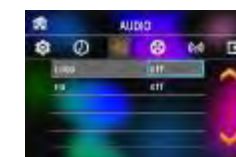


CLOCK SETUP

AUDIO SETUP

Loud: choose between Loudness ON/OFF.

EQ: choose between the different types of EQ.



AUDIO SETUP

VIDEO SETUP

Standard video

Brightness

Contrast

Saturation

Hue



VIDEO SETUP

RADIO SETUP

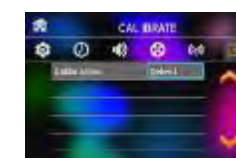
Radio region: choose the radio zone.



RADIO SETUP

CALIBRATE

calibrate the TFT display as the arrow.



CALIBRATE

3. Radio Operation

1. BAND BUTTON

In RADIO mode, press the BAND button on the remote control or on the front panel to select your desired radio band of FM1, FM2, FM3, AM1 and AM2, and the selected band will be displayed on the small monitor of the front panel.

2. TUNE/SEEK UP/DOWN BUTTONS

In RADIO mode:

- 1) Press and hold the UP/DN button to automatically search up/down for a available station from the current frequency.
- 2) Briefly press the UP/DN button to manually search up or down with step by step for your desired station from the current frequency.

3. APS BUTTON

In RADIO mode:

- 1) When pressing and holding the APS button, the radio searches from the lowest frequency and checks the signal strength level until 1 cycle search is finished. And then the 6 strongest stations are preset to the corresponding preset number memory bank. The AS operation is implemented in each bank of the selected band. When the AS operation is finished, the radio executes the preset scan, and after preset scanning for one cycle, it will stop scanning and broadcasting the No.1 station for FM1.(It can store 3x6 stations for FM and 2x6 stations for AM in all)
- 2) When briefly pressing the APS button on the front panel or the remote control, the radio searches for each preset station from the M1. When the field strength level is more than the threshold level of the stop level, the radio holds at that preset number for few seconds with releasing mute, and then searches again. After finishing a circle of searching, it will stop searching on the M1.

NOTE: In FM band, FM1,FM2,FM3 is checked one at a time.

In AM band, AM1, AM2 is checked one at a time.

4. PRESET STATION [1-6] BUTTONS

- 1) To memorize the current frequency on the current band, press and hold any one of the six Number buttons (1-6) .
- 2) To recall the memory station on the current band, press one of the Number buttons [1-6] .

5. STEREO/MONO BUTTON

Press the ST button on the remote control to select the STEREO or MONO sound mode for FM band.

6. LOC BUTTON

- 1) When the signal of the distance radio station are very weak and the receiving effect is bad during tuning, check whether there is the word LOC on LCD. If there is the word LOC on LCD, press this button to turn off the LOC function, then tune again for the distance radio station;
- 2) When the signals from the local radio stations are too strong, this could lead to interference. press this button to turn on the LOC function, and the LOC icon will be lit up on the LCD. Re-tune for the local station required.



RADIO interface



RADIO interface

After enlarging or minifying videos or image, press one of the ^/v/>/< buttons to select the area you want to view.

In MP3/WMA mode, the ZOOM button is invalid.

4.12 Change Caption Language

In MP4 mode, during playback, press the SUBTITLE button repeatedly to select the language of the caption or turn off the caption.(depend on the file played)

In JPEG/MP3/WMA mode, the SUBTITLE button is invalid.

4.13 Look over Playback Information

1. In MP4/MP3/WMA mode, press the OSD button repeatedly to turn on/off the playback information. When it is on, it will display the information such as: Track serial number, Track elapsed time, Track remained time, etc.
2. In JPEG mode, press the OSD button to display or disappear the Track serial number.

4.14 Program Playback

It allows you to enter the order in which you want some chapters/tracks in MP3/WMA mode to play.

- 1 During playback, press the PROG button to enter a program interface as follows:



- 2 Use the direction buttons to move cursor onto the desired place for inputting the sequence number.

4.8 Playback Repeatedly

4.8.1 ONE/ALL Repeat

In MP4/JPEG/MP3/WMA mode, press the RPT button to select REP ONE, REP DIR, REP ALL or OFF.

4.8.2 A-B Repeat

In MP4/MP3/WMA mode, during playback, press the A-B button if you want to repeat a specific segment that you define:

1. Press the A-B button at a point (A) where you want it to be the start point of the repeat segment. Press the A-B button again at a point (B) where you want it to be the terminal point of the repeat segment. Then it will play the segment repeatedly.
2. To cancel A-B repeat mode and resume normal playback, press the A-B button for the third time.

In JPEG mode, no A-B Repeat function.

4.9 Play from a specified chapter/track or a specified time

In MP4/JPEG/MP3/WMA mode, press the SEARCH button to display a interface and highlight the track item, then use the number buttons to input the serial number of the track;

you can still use the direction buttons to highlight the time item, then use the number buttons to input the desired time to start playback(invalid for JPEG);

finally press the OK button to play the selected track or play from the selected time.

4.10 Playback in Random

In MP3/WMA mode, press the RDM button to switch between Random ON/OFF. When in Random mode, it will play in random.

In MP4/JPEG mode, the RDM button is invalid.


4.11 Zoom Video/Image


In MP4/JPEG mode, during playback, press the ZOOM button continuously to enlarge or minify videos or image at the following multiples: 2x, 4x, 8x, 1/2x, 1/4x, 1/8x, OFF.


4. USB and MMC/SD Operation


Insert an USB or MMC/SD Card into their slots respectively, then the root menu will be displayed on the monitor and it will play audio file automatically if the USB or MMC/SD Card include audio files.


During playback, press the STOP button twice to stop playback, then pull the USB out of the USB socket; or push the card and then pull it out of the card slot.


 : select to pause playback.


 : select to stop playback .


 :select one of them can switch on between the speed levels of fast backward or forward. (Except image mode.)


 : select one of them can select next or previous chapter/track.

 : select to mute the sound.

 : select to turn the selecting page up and down.

 : select to RDM play mode as the remote control. (Only for music mode.)


 : To select audio language.


 : Same as the PRG button on the remote control. (Follow the instruction in page 16.)

 : Same as the A-B button on the remote control.

 : Same as the REPEAT button on the remote control.

 : Same as the SUBTITLE button on the remote control.

 : To select the track/chapter from 1-9 and then select OK to play your selecting.

 : During playback, press the ZOOM button and then tap one of them are same as the direction buttons on the Remote Control. (Except music & image mode.);During playback, press one of them to change the playback angle. (Only for image mode.)



USB/CARD interface




Root interface for MUSIC





Keyboard interface 1



Keyboard interface 2

 : Same as the ZOOM button on the remote control.

 : Select to play step by step, select >II to turn to normal play.

 : To select the track/chapter from 0-9 and then select OK to play your selecting.



Keyboard interface 3

4.1 Pause Playback

When playing MP4/JPEG/MP3/WMA files, press the PAUSE button to pause the playback, press the PLAY button to resume normal playback.

4.2 Stop Playback

In MP3/WMA mode, press the STOP button once to pause the playback, then press the PLAY/PAUSE button to resume the normal playback (play from the point playing just now); press the STOP button twice to full stop the playback, then press the PLAY/PAUSE button to start playback from the first track.

In MP4/JPEG mode, during playback, pressing the STOP button can return back to root menu.

4.3 Select Chapter/Track with the UP / DN Button

In MP4/JPEG/MP3/WMA mode, during playback, Press the UP/DN button to select next or last chapter/track to playback.

NOTE:

Pressing the UP/DN button multiple times can advance multiple chapters/tracks forward or backward.

4.4 Select Chapter/Track with the Number Buttons

When playing MP4/JPEG/MP3/WMA files, press one of the 1~9 and the 0/10 number buttons to directly select and play the 1st to 10th track /chapter (the 0/10 button is used as the 10 button).

If you want to play the track/chapter with serial number bigger than 10, use the 10+, 1~9 and 0/10 button. For example 1, to play the 13th track/chapter, firstly press the 10+ button once, then press the 3 button. For example 2, to

play the 34th track/chapter, firstly press the 10+ button for 3 times, then press the 4 button. (the 0/10 button is used as the 0 button)

Note: pressing and holding the +10 or -10 buttons will allow you to play the next 10 or last 10 chapter/track (only for MP3/WMA).

4.5 Select Chapter/Track with Root Menu

In MP3/WMA mode, during playback, the root menu is displayed on the monitor all the time. In MP4/JPEG mode, during playback, pressing the STOP button can return back to the root menu.

In the bottom of the root menu, the left file sort icon is for audio files; the middle file sort icon is for image files; the right file sort icon is for video Files. If one of the 3 sorts of files does not exist, you can not move cursor onto the file sort icon.

When displaying the root menu, press the direction buttons to select your desired folder, file or file sort icon, then press the OK or PLAY button to open the selected folder, or play the selected file, or display only the sort of files. When displaying the root menu, you can also use the number buttons to select the serial number of the file and play the file.

During JPEG playback, press one of the direction (>/</^/v) buttons to change the angle of viewing picture that is displaying as follows:
>: 90 deg cw; <: 90deg ccw; ^: UP<-->DOWN; v: LEFT<-->RIGHT

4.6 Playback with Speed

In MP4/MP3/WMA mode, during playback, long press the UP or DN button continuously to fast play forwards or backwards at the multiple speeds such as x2, x4, x8, x20, normal.

During speed playback, press the PLAY/PAUSE button to resume normal playback.

In JPEG mode, no function of speed playback.

4.7 Playback with Slow Speed

During MP4 playback, press the SLOW_FWD button to execute the Slow Forward function.

With each consecutive pressing of the SLOW_FWD button, the playback speed decreases. The speed levels in SLOW Forward as follows:
x1/2, x1/3, x1/4, x1/5, x1/6, x1/7, normal.

During slow forward, press the PLAY button to resume normal playback. The function is only for video.